## Task:

**Application field:** Mineralogy / Metallurgy  
**Material:** Pure quartz glass  
**Feed size:** 30-40 mm (cylinders)  
**Feed quantity:** 65 g  
**Material specification(s):** hard brittle  
**Customer requirement(s):** < 250 µm - 1 mm  
**Subsequent analysis:** AAS Atomic Absorption-Spectroscopy

## Solution:

**Selected instrument(s):** Jaw Crusher BB 51  
**Configuration(s):** Breaking jaws of tungsten carbide  
**Parameter(s):** Gap width 0.3 and 0.7 mm  
**Time:** 15 s (per step)  
**Achieved result(s):**  
36 % < 0.25 mm  
44 % 0.25 - 1.0 mm  
20 % > 1.0 mm  
**Remark(s):** The grinding is performed in two steps: Pre-crushing with gap 0.7 mm and afterwards fine crushing with gap 0.3 mm  
**Recommendation:** The Jaw Crusher BB 51 is suitable to grind the sample material under the above mentioned conditions.
Pictures of the sample

Fig. 1: Original sample

Fig. 2: Original sample